

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q96695

Kouji YOSHIKAWA

Appln. No.: Unknown

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: September 19, 2006

Examiner: Unknown

For: METHOD FOR PRODUCING (1-ALKENYL) CYCLOPROPANE COMPOUND

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 and 1.98

**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

1. JP No. 2004-307480 A, published November 4, 2004 to Sumitomo Chemical Co., Ltd.
2. JP No. 63-122661 A, published May 26, 1988 to Roussel Uclaf.
3. JP No. 56-113737 A, published September 7, 1981 to Roussel Uclaf.
4. L. Crombie et al, "Syntheses of <sup>14</sup>C-Labelled (+)-*trans*-Chrysanthemum Mono- and Di- carboxylic Acids, and of Related Compounds", J. Chem. Soc. (C), 1970, pp.1076-1080.

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5. M. Elliott et al., "The Pyrethrins and Related Compounds, Part XVIII.<sup>1</sup> Insecticidal 2,2-Dimethylcyclopropanecarboxylates with New Unsaturated 3-Substituents", J.C.S. Perkin Trans. I, 1974, pp. 2470-2474.
6. E. Bosone et al., "Synthesis and Insecticidal Activity of 3-(Haloalkyl-1,3-dienyl)-2,2-dimethylcyclopropanecarboxylates", Pestic. Sci., 17, 1986, pp. 621-630.
7. M. Matsui et al., "Studies on Chrysanthemic Acid. IV. Synthesis of Chrysanthemumdicarboxylic Acid from Chrysanthemic Acid", Proc. Japan Acad., Vol. 32, No. 5, 1956, pp. 353-355.
8. EP 1 609 777 A1, published December 28, 2005 to Sumitomo Chemical Co., Ltd.
9. U.S. Patent No. 4,879,302 issued November 7, 1989 to Tessier et al.
10. U.S. Patent No. 4,401,673 issued August 30, 1983 to Martel et al.
11. N. Hoffman et al., "Palladium-Catalyzed Decarbonylation of trans- $\alpha$ -Substituted Cinnamaldehydes", J. Org. Chem., Vol. 27, July 1962, pp. 2687-2689.
12. H.E. Eschinazi et al., "Study in the Terpene Series.XXXI.<sup>1</sup> Synthesis of Apopinene by Catalytic Decarbonylation of Myrtenal", J. Org. Chem., Vol. 24, September 1959, pp. 1369.

References 1-3 are listed on the International Search Report. One copy of references 4-8 and 11-12 are submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

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filings a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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Date: September 19, 2006

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   |    |   | Application Number     | Unknown            |
|  |   |    |   | Confirmation Number    | Unknown            |
|  |   |    |   | Filing Date            | September 19, 2006 |
|  |   |    |   | First Named Inventor   | Kouji YOSHIKAWA    |
|  |   |    |   | Art Unit               | Unknown            |
|  |   |    |   | Examiner Name          | Unknown            |
| Sheet  | 1 | of | 1 | Attorney Docket Number | Q96695             |

| U.S. PATENT DOCUMENTS |                       |                 |                                      |                                |  |
|-----------------------|-----------------------|-----------------|--------------------------------------|--------------------------------|--|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document |
|                       |                       | Number          | Kind Code <sup>2</sup><br>(if known) |                                |  |
|                       | US 4,879,302          | A               |                                      | 11/07/1989                     | Tessier et al.                                     |
|                       | US 4,401,673          | A               |                                      | 08/30/1983                     | Marcel et al.                                      |
|                       | US                    |                 |                                      |                                |  |
|                       | US                    |                 |                                      |                                |  |

| FOREIGN PATENT DOCUMENTS |                       |                           |                     |                                |  |
|--------------------------|-----------------------|---------------------------|---------------------|--------------------------------|--|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document   |                     | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document |
|                          |                       | Country Code <sup>3</sup> | Number <sup>4</sup> |                                |  |
|                          | JP                    | 2004-307480               | A                   | 11/04/2004                     | Sumitomo Chemical Co., Ltd.                        |
|                          | JP                    | 63-122661                 | A                   | 05/26/1988                     | Roussel Uclaf                                      |
|                          | JP                    | 56-113737                 | A                   | 09/07/1981                     | Roussel Uclaf                                      |
|                          | EP                    | 1 609 777                 | A1                  | 12/28/2005                     | Sumitomo Chemical Company, Limited                 |
|                          |                       |                           |                     |                                |  |
|                          |                       |                           |                     |                                |  |
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|                          |                       |                           |                     |                                |  |

| NON PATENT LITERATURE DOCUMENTS |                       |  |  |  |                          |
|---------------------------------|-----------------------|--|--|--|--------------------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. |  |  | Translation <sup>6</sup> |
|                                 |                       | L. Crombie et al., "Syntheses of 4-C-Labelled (+)-trans-Chrysanthemum Mono- and Di-carboxylic Acids, and of Related Compounds", J. Chem. Soc. (C), 1970, pp.1076-1080.   |  |  |                          |
|                                 |                       | M. Elliott et al., "The Pyrethrins and Related Compounds, Part XVIII. Insecticidal 2,2-Dimethylcyclopropanecarboxylates with New Unsaturated 3-Substituents", J.C.S. Perkin Trans. I, 1974, pp. 2470-2474.   |  |  |                          |
|                                 |                       | E. Bosone et al., "Synthesis and Insecticidal Activity of 3-(Haloalkyl-1,3-dienyl)-2,2-dimethylcyclopropanecarboxylates", Pestic. Sci., 17, 1986, pp. 621-630.   |  |  |                          |
|                                 |                       | M. Matsui et al., "Studies on Chrysanthemic Acid. IV. Synthesis of Chrysanthemumdicarboxylic Acid from Chrysanthemic Acid", Proc. Japan Acad., Vol. 32, No. 5, 1956, pp. 353-355.  |  |  |                          |
|                                 |                       | N. Hoffman et al., "Palladium-Catalyzed Decarbonylation of trans- $\alpha$ -Substituted Cinnamaldehydes", J. Org. Chem., Vol. 27, July 1962, pp. 2687-2689.  |  |  |                          |
|                                 |                       | H.E. Eschinazi et al., "Study in the Terpene Series.XXXI. Synthesis of Apopinene by Catalytic Decarbonylation of Myrtenal", J. Org. Chem., Vol. 24, September 1959, pp. 1369.  |  |  |                          |
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| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov). MPEP 901.04 or follow the hyperlink from the title of the document to the internet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.